

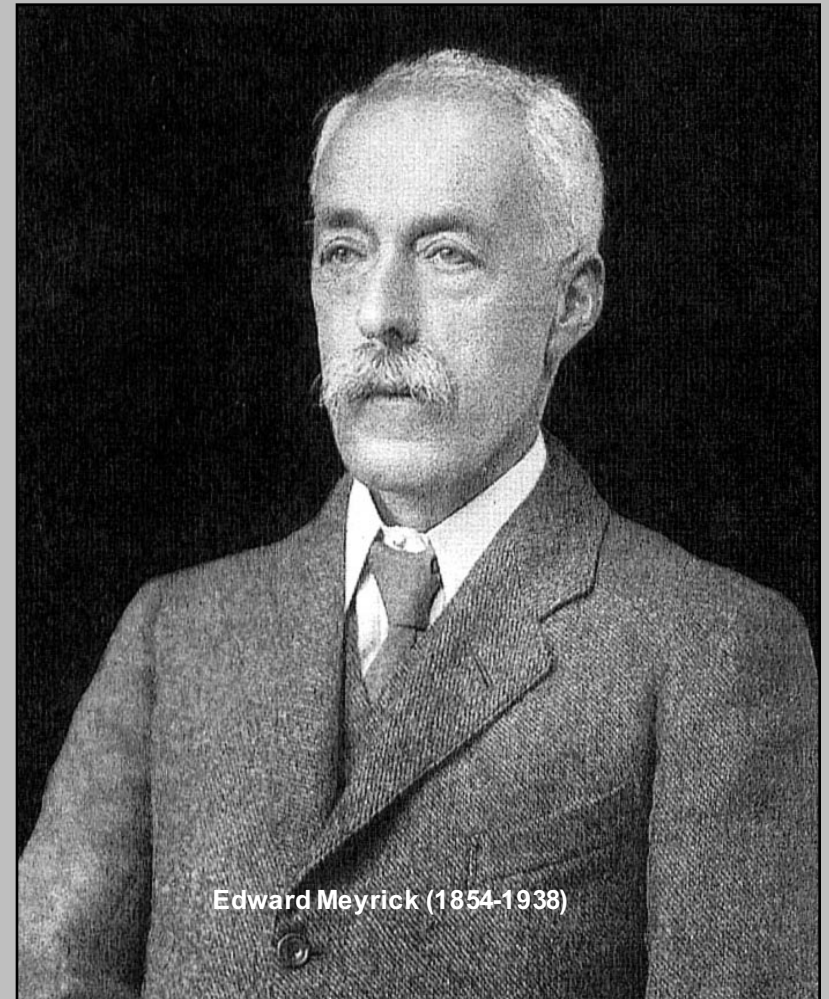
# Morphology of Male Genitalia

Richard L. Brown  
Mississippi Entomological Museum

# Lepidoptera Genitalia

“The genital organs of the imagos are likely to be of slight importance in the definition of groups, whilst neurulation occupies a high position....”

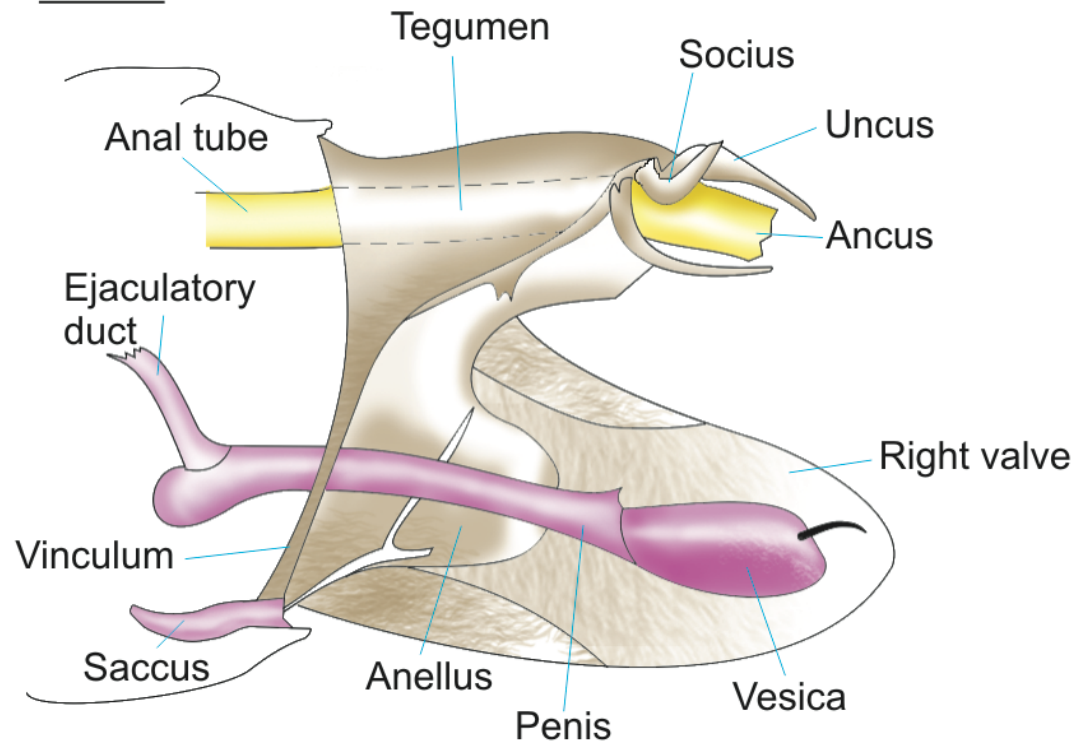
Edward Meyrick  
(as quoted by J.F.G. Clarke, 1955)



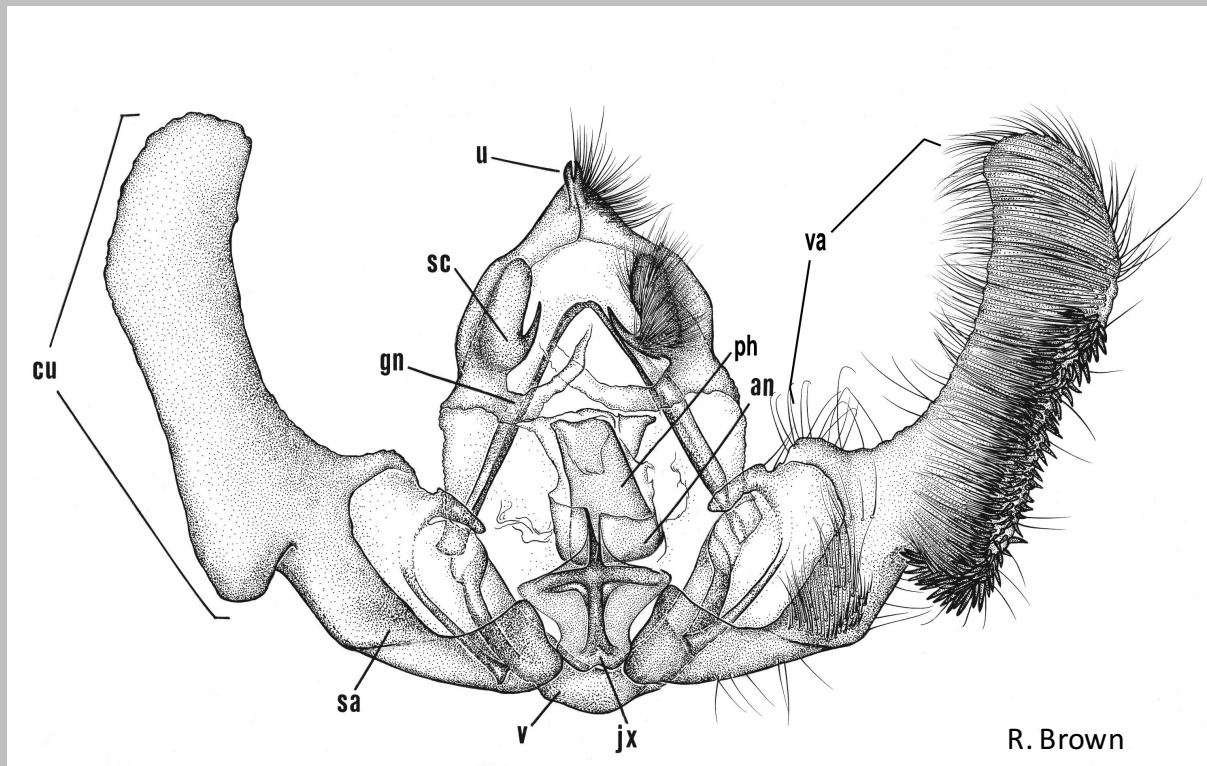
Edward Meyrick (1854-1938)

# Genitalia of Lepidoptera

## Male



# Male Genitalia

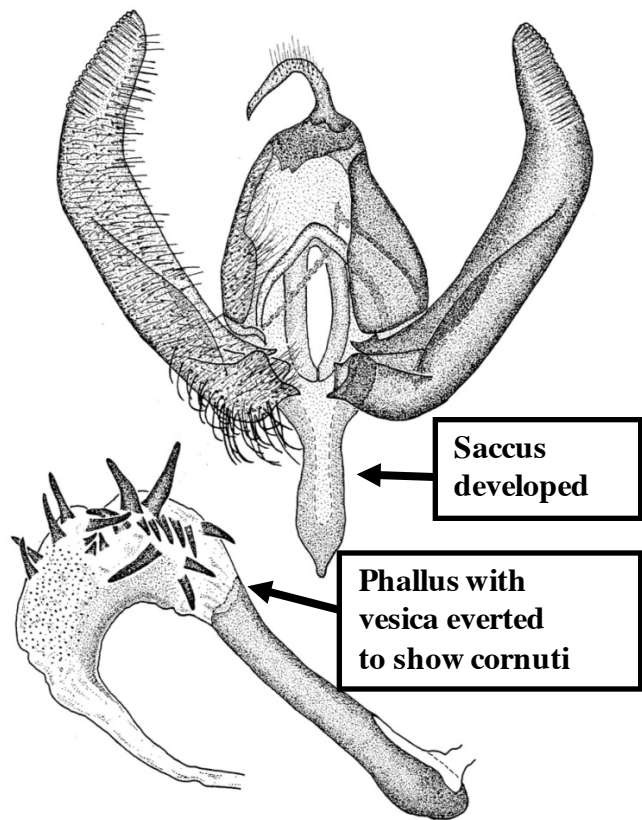


Genitalia of intact male

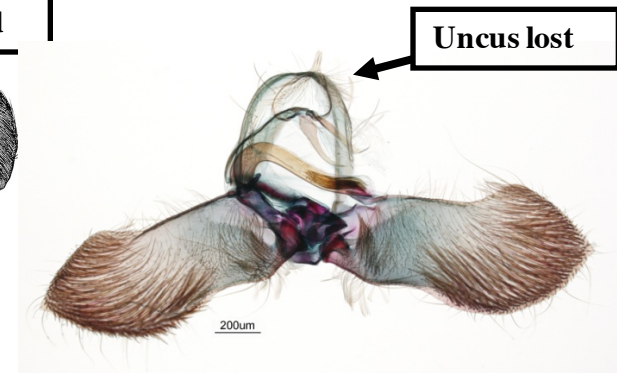
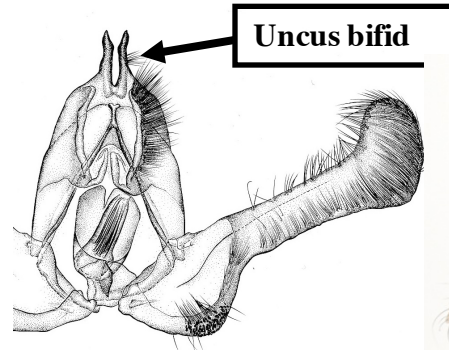
an - anellus  
cu – cucullus  
gn – gnathos  
jx - juxta  
**ph – phallus**

sa - sacculus  
**sc - socius**  
**u - uncus**  
v - vinculum  
**va - valva**

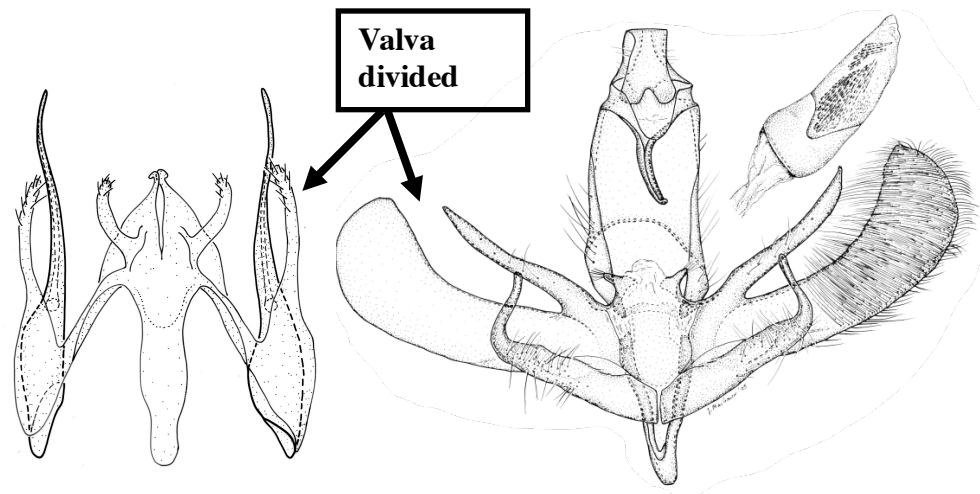
# Examples of Variation in Male Genitalia



Noctuidae



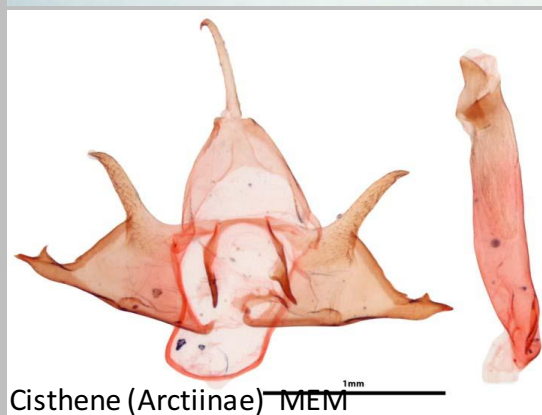
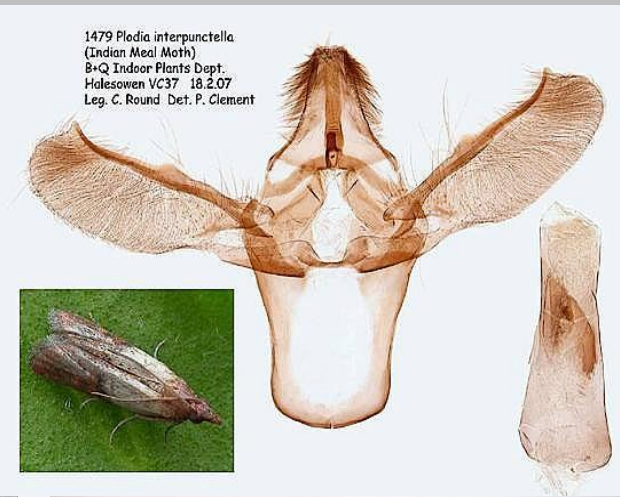
Tortricidae



Gelechioidea

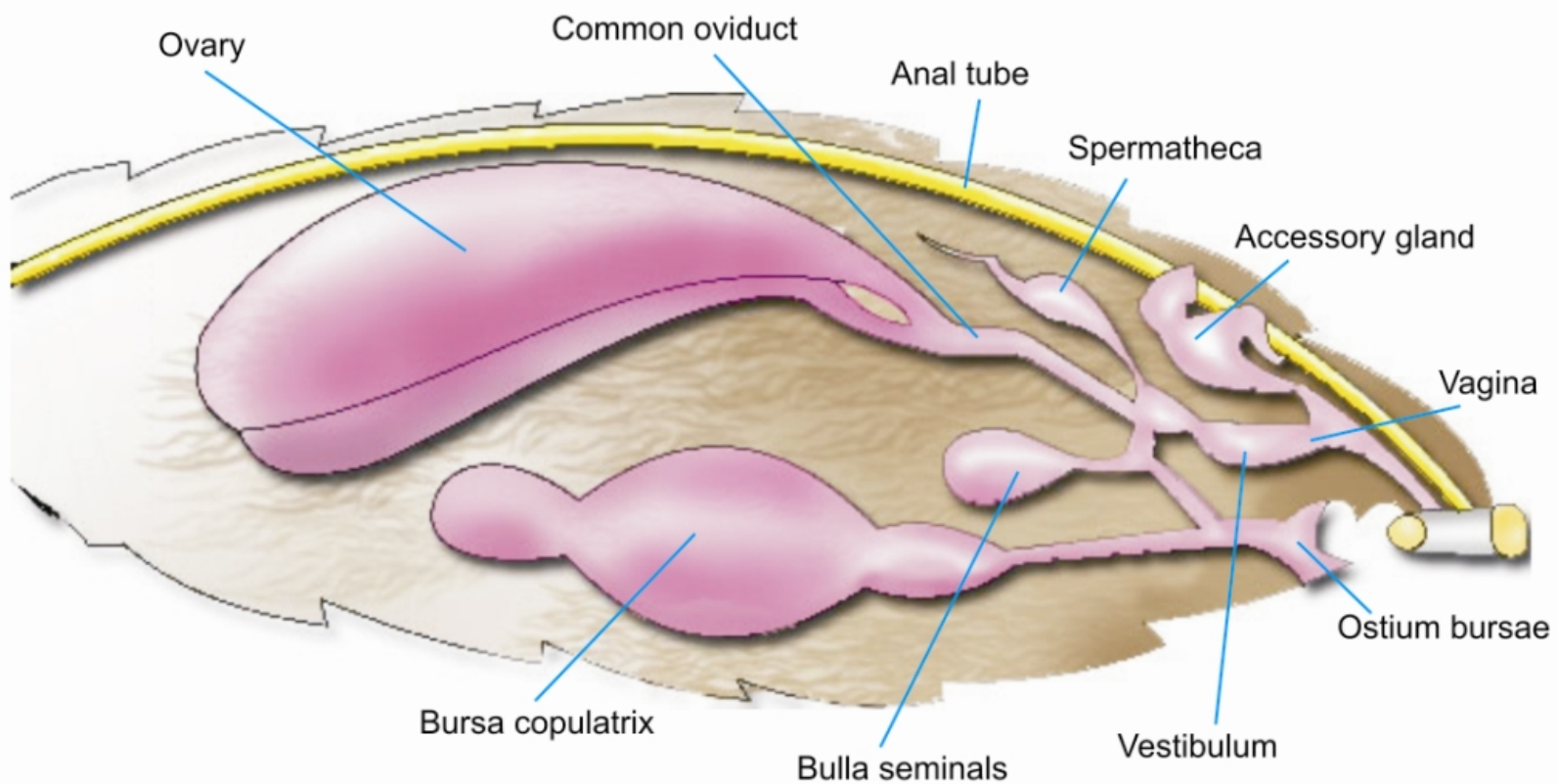


# Variation in Families



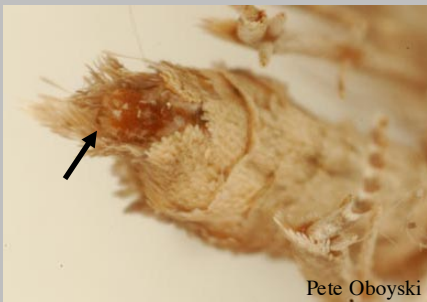
# Female Genitalia

## Female



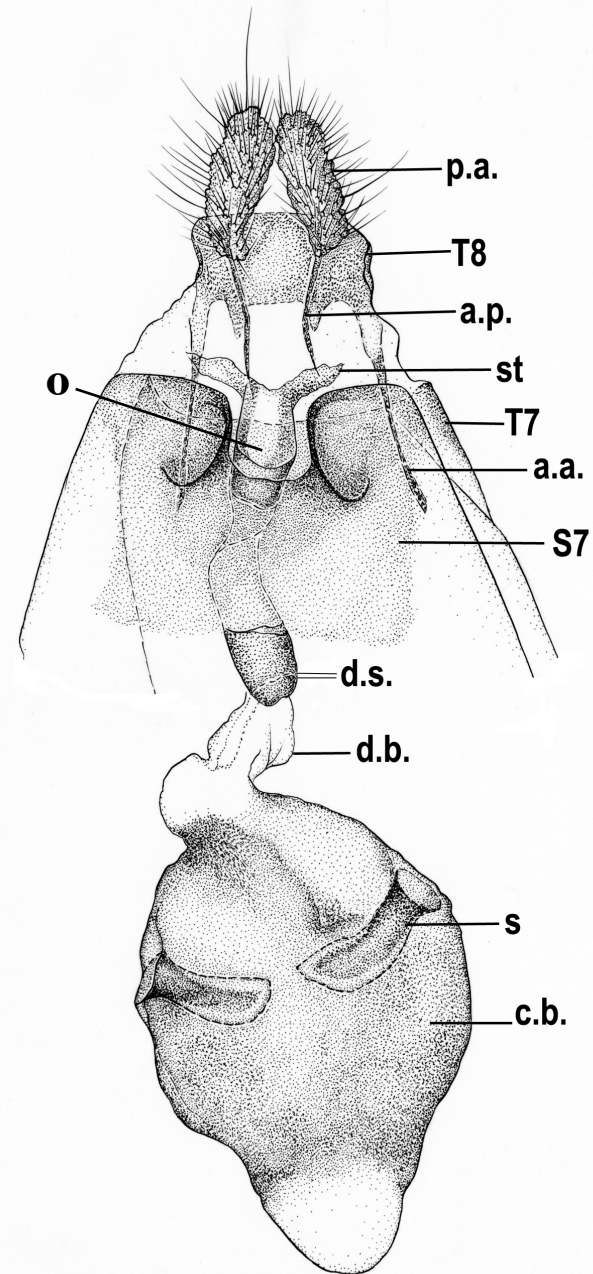
## Female Genitalia

- T7 - abdominal tergum 7<sup>th</sup>
- T8 - abdominal tergum 8<sup>th</sup>
- S7 - abdominal sternum 7<sup>th</sup>
- p.a. - papilla anales
- a.p. - apophyses posteriores
- a.a. - apophyses anteriores
- s.t. - sterigma
- o - ostium bursae
- d.b. - ductus bursae
- d.s. - ductus seminalis
- c.b. - corpus bursae
- S - signum

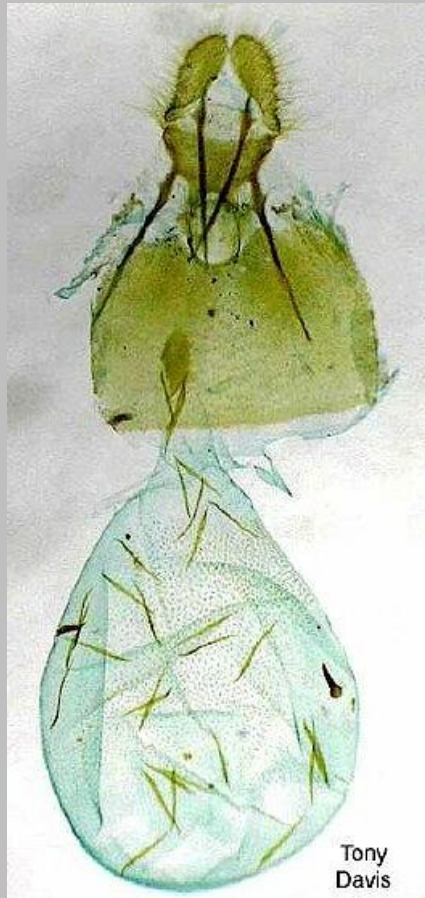


Pete Oboyski

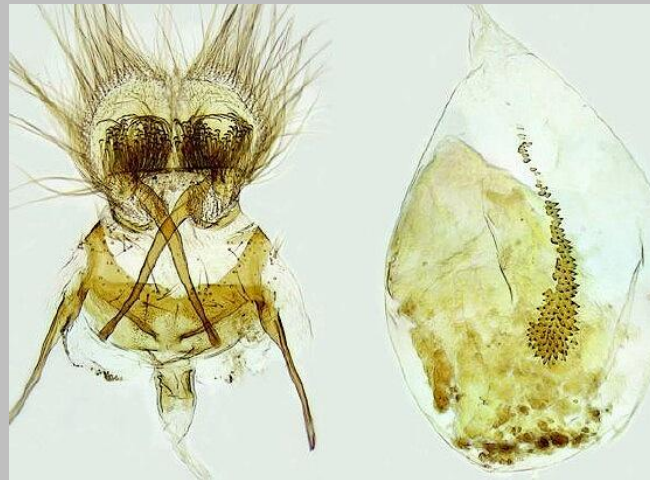
Genitalia of  
intact female



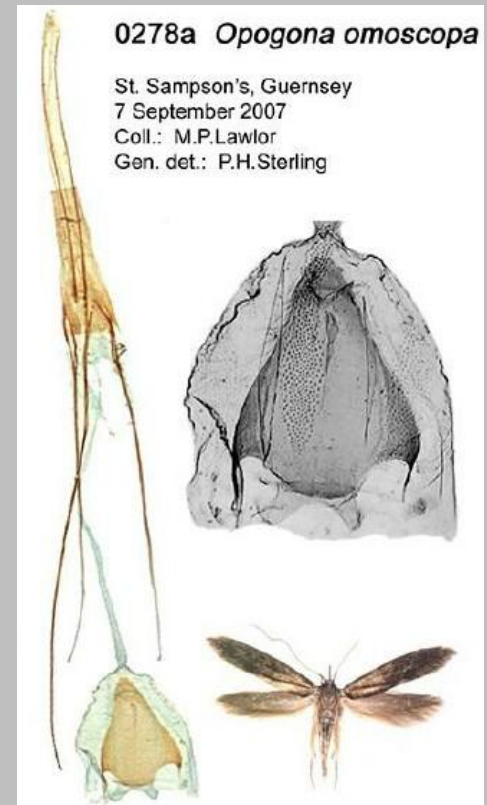




Ovipositor for flat substrate



Ovipositor for hiding eggs



Ovipositor for inserting eggs

## **You-Tube Videos**

- **Dissection of the Male Genitalia**
- **Dissection of the Male Genitalia**
- **Collecting and Pinning Microlepidoptera**